

Discovery of an Inhibitor of the Rpn11 Proteasome Subunit

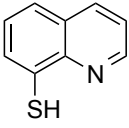
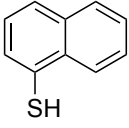
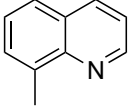
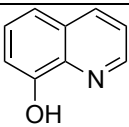
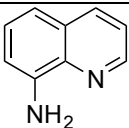
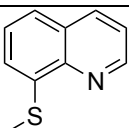
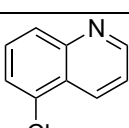
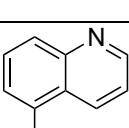
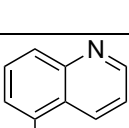
*Christian Perez¹, Jing Li², Frank Parlati^{2††}, Matthieu Rouffet^{1†}, Yuyong Ma¹, Andrew L.
Mackinnon², Tsui-Fen Chou^{2†††}, Raymond J. Deshaies^{*,2,3}, Seth M. Cohen^{*,1}*

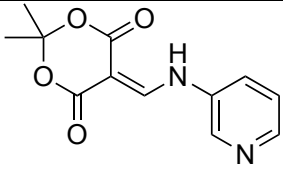
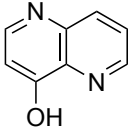
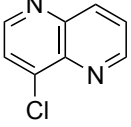
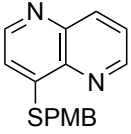
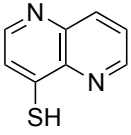
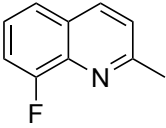
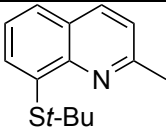
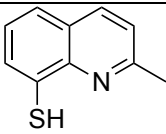
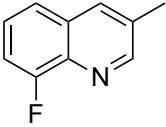
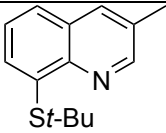
SUPPORTING INFORMATION

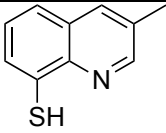
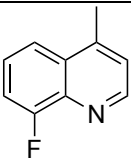
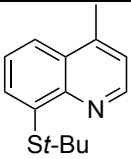
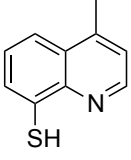
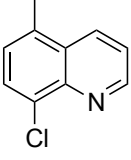
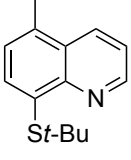
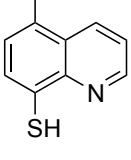
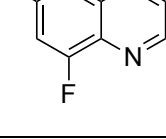
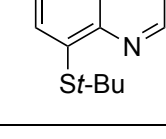
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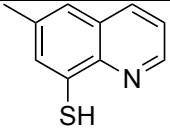
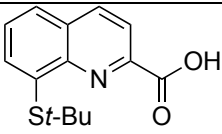
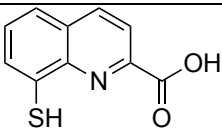
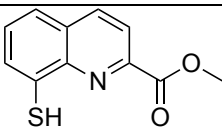
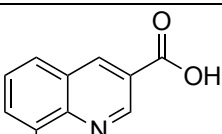
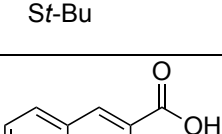
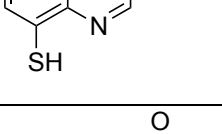
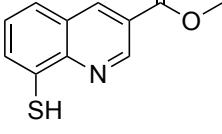
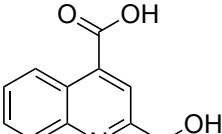
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Compound Identification and Molecular Formula Strings

Cmpd Name	Structure	Catalog Name	SMILES
8TQ		0001	<chem>SC1=C(N=CC=C2)C2=CC=C1</chem>
2		1000	<chem>SC1=C(C=CC=C2)C2=CC=C1</chem>
3		1005	<chem>CC1=C(N=CC=C2)C2=CC=C1</chem>
4		1003	<chem>OC1=C(N=CC=C2)C2=CC=C1</chem>
5		1004	<chem>NC1=C(N=CC=C2)C2=CC=C1</chem>
6		1002	<chem>CSC1=C(N=CC=C2)C2=CC=C1</chem>
7a		----	<chem>ClC1=C(C=CC=N2)C2=CC=C1</chem>
7b		----	<chem>CC(C)(C)SC1=C(C=CC=N2)C2=CC=C1</chem>
7c		1001	<chem>SC1=C(C=CC=N2)C2=CC=C1</chem>

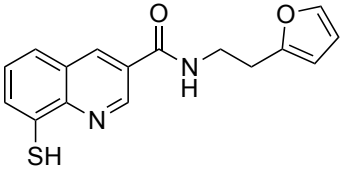
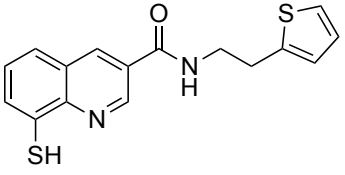
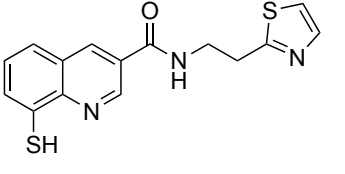
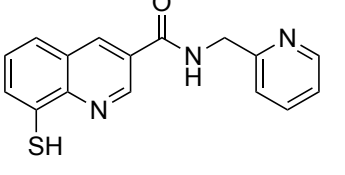
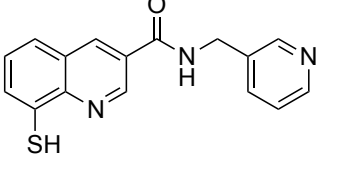
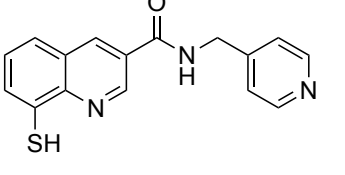
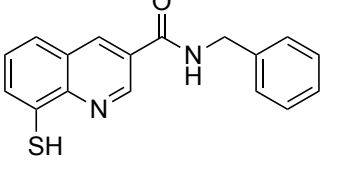
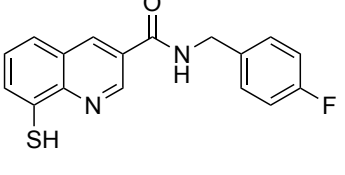
8a		----	<chem>CC(OC(=O)C(=O)OC(C)(C)C)OC(C1=C/NC2=CN=CC=C2)=O</chem>
8b		----	<chem>OC1=CC=NC2=C1N=CC=C2</chem>
8c		----	<chem>ClC1=CC=NC2=C1N=CC=C2</chem>
8d		----	<chem>COC(C=C1)=CC=C1CSC2=CC=NC3=C2N=CC=C3</chem>
8e		1011	<chem>SC1=CC=NC2=C1N=CC=C2</chem>
9a		----	<chem>FC1=C(N=C(C)C=C2)C2=CC=C1</chem>
9b		----	<chem>CC1=NC2=C(C(SC(C)(C)C)C)C=CC=C2C=C1</chem>
9c		1006	<chem>SC1=C(N=C(C)C=C2)C2=CC=C1</chem>
10a		----	<chem>FC1=C(N=CC(C)=C2)C2=CC=C1</chem>
10b		----	<chem>CC1=CC2=CC=CC(SC(C)(C)C)=C2N=C1</chem>

10c		1007	<chem>SC1=C(N=CC(C)=C2)C2=CC=C1</chem>
11a		----	<chem>FC1=C(N=CC=C2C)C2=CC=C1</chem>
11b		----	<chem>CC1=CC=NC2=C(SC(C)(C)C)C=CC=C21</chem>
11c		1008	<chem>SC1=C(N=CC=C2C)C2=CC=C1</chem>
12a		----	<chem>ClC1=C(N=CC=C2)C2=C(C)C=C1</chem>
12b		----	<chem>CC1=C2C(N=CC=C2)=C(SC(C)(C)C)C=C1</chem>
12c		1009	<chem>SC1=C(N=CC=C2)C2=C(C)C=C1</chem>
13a		----	<chem>FC1=C(N=CC=C2)C2=CC(C)=C1</chem>
13b		----	<chem>CC1=CC(SC(C)(C)C)=C(N=CC=C2)C2=C1</chem>

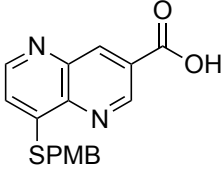
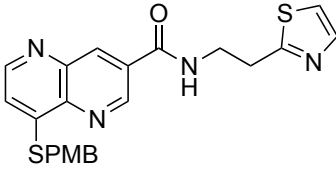
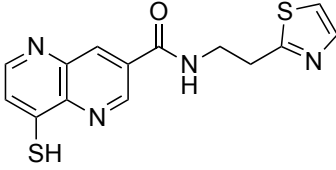
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14a		----	<chem>OC(C1=NC2=C(SC(C)(C)C)C=CC=C2C=C1)=O</chem>
14b		2001	<chem>SC1=C(N=C(C(O)=O)C=C2)C2=CC=C1</chem>
15		2002	<chem>SC1=C(N=C(C(OC)=O)C=C2)C2=CC=C1</chem>
16a		----	<chem>O=C(O)C1=CC2=CC=CC(SC(C)(C)C)=C2N=C1</chem>
16b		3001	<chem>SC1=C(N=CC(C(O)=O)=C2)C2=CC=C1</chem>
17		3002	<chem>SC1=C(N=CC(C(OC)=O)=C2)C2=CC=C1</chem>
18a		----	<chem>FC1=C(N=C(C(O)=O)C=C2C(O)=O)C2=CC=C1</chem>
18b		----	<chem>FC1=C(N=CC=C2C(O)=O)C2=CC=C1</chem>

18c		----	<chem>O=C(O)C1=CC=NC2=C(SC(C)(C)C)C=CC=C21</chem>
18d		4001	<chem>SC1=C(N=CC=C2C(O)=O)C2=CC=C1</chem>
19		4002	<chem>SC1=C(N=CC=C2C(OC)=O)C2=CC=C1</chem>
20		2003	<chem>SC1=C(N=C(C(NCC2=CC=CS2)=O)C=C3)C3=CC=C1</chem>
21		2004	<chem>SC1=C(N=C(C(NCC2=CC=CC=C2)=O)C=C3)C3=CC=C1</chem>
22		4004	<chem>SC1=C(N=CC=C2C(NCC3=CC=CS3)=O)C2=CC=C1</chem>
23		4006	<chem>SC1=C(N=CC=C2C(NCC3=CC=CO3)=O)C2=CC=C1</chem>
24		3003	<chem>SC1=C(N=CC(C(N)=O)=C2)C2=CC=C1</chem>

25		3004	<chem>SC1=C(N=CC(C(NC)=O)=C2)C2=CC=C1</chem>
26		3005	<chem>SC1=C(N=CC(C(NCC(OC)=O)=O)=C2)C2=CC=C1</chem>
27		3023	<chem>SC1=C(N=CC(C(NC2=NC=CO2)=O)=C3)C3=CC=C1</chem>
28		3021	<chem>SC1=C(N=CC(C(NC2=NC=CS2)=O)=C3)C3=CC=C1</chem>
29		3024	<chem>SC1=C(N=CC(C(NCC2CCCCO2)=O)=C3)C3=CC=C1</chem>
30		3010	<chem>SC1=C(N=CC(C(NCC2=CC=CO2)=O)=C3)C3=CC=C1</chem>
31		3011	<chem>SC1=C(N=CC(C(NCC2=CC=CS2)=O)=C3)C3=CC=C1</chem>
32		3025	<chem>SC1=C(N=CC(C(NCC2=NC=CS2)=O)=C3)C3=CC=C1</chem>

33		3022	<chem>SC1=C(N=CC(C(NCCC2=CC=CO2)=O)=C3)C3=CC=C1</chem>
34		3018	<chem>SC1=C(N=CC(C(NCCC2=CC=CS2)=O)=C3)C3=CC=C1</chem>
35		3027	<chem>SC1=C(N=CC(C(NCCC2=NC=CS2)=O)=C3)C3=CC=C1</chem>
36		3007	<chem>SC1=C(N=CC(C(NCC2=CC=CC=N2)=O)=C3)C3=CC=C1</chem>
37		3008	<chem>SC1=C(N=CC(C(NCC2=CC=CN=C2)=O)=C3)C3=CC=C1</chem>
38		3009	<chem>SC1=C(N=CC(C(NCC2=CC=NC=C2)=O)=C3)C3=CC=C1</chem>
39		3006	<chem>SC1=C(N=CC(C(NCC2=CC=CC=C2)=O)=C3)C3=CC=C1</chem>
40		3015	<chem>SC1=C(N=CC(C(NCC2=CC=C(F)C=C2)=O)=C3)C3=CC=C1</chem>

41		3016	<chem>SC1=C(N=CC(C(NCC2=CC=C(C(F)(F)F)C=C2)=O)=C3)C3=CC=C1</chem>
42		3017	<chem>SC1=C(N=CC(C(NCC2=CC=C(OC)C=C2)=O)=C3)C3=CC=C1</chem>
43		3013	<chem>SC1=C(N=CC(C(NCC2=CC=C(OCOC3)C3=C2)=O)=C4)C4=CC=C1</chem>
44		3019	<chem>SC1=C(N=CC(C(NCC2=CC=C(N3CCOCC3)C=C2)=O)=C4)C4=CC=C1</chem>
45		3012	<chem>SC1=C(N=CC(C(NCCN2CCOCC2)=O)=C3)C3=CC=C1</chem>
46		3014	<chem>SC1=C(N=CC(C(NCC(NCC(OCC2=CC=CC=C2)=O)=O)=O)=C3)C3=CC=C1</chem>
47		C001	<chem>OC1=C(N=CC(C(NCCC2=NC=CS2)=O)=C3)C3=CC=C1</chem>
48		C002	<chem>O=C(NCCC1=NC=CS1)C2=CC3=CC=CC(SC)=C3N=C2</chem>
49a		----	<chem>FC1=C(C=CC(C)=N2)C2=C(Br)C=C1</chem>

50d		----	<chem>COC(C=C1)=CC=C1CSC2=CC=NC3=C2N=CC(C(O)=O)=C3</chem>
50e		----	<chem>COC(C=C1)=CC=C1CSC2=CC=NC3=C2N=CC(C(NCCC4=NC=CS4)=O)=C3</chem>
50f		C004	<chem>SC1=CC=NC2=C1N=CC(C(NCCC3=NC=CS3)=O)=C2</chem>

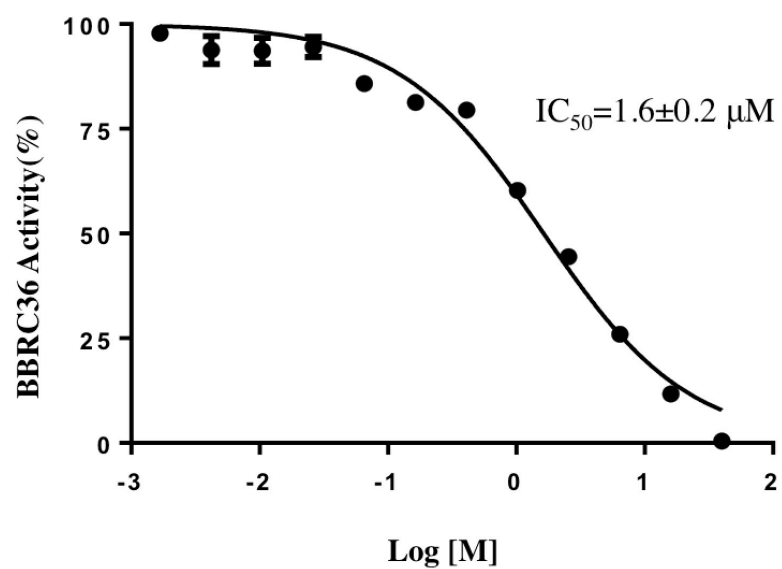


Figure S1. Inhibition of **8TQ** against the BBRC36 (BRISC) complex was measured. Error bars represent standard deviation ($n = 4$).